

<p>84-250922/41 A87 F05 TEVO-09.09.81 INST TECH VOLOKON AN GDR (WOOL =) *DD -210-561-A 19.06.80-SU-942502 (+ DD-233137) (13.06.84) D06m-10 D06m-13/20 Finishing treatment for synthetic fibre textiles - by treating with soln. of polyethylene-glycol-di-methacrylate contg. said. monomer and irradiating with electrons</p>	<p>A(10-E7B, 11-C2B, 12-G, 12-G3) F(3-C, 3-C2, 3-C5) 026</p>
<p>C84-105589 Full Priorities: (CMEA): 19.6.80-SU-7942502; 9.9.81-DD-2331374 METHOD CLAIMED Synthetic fibre textiles are finished by (a) treatment with an aq. soln. of a polyethylene-glycol-di-(meth)acrylate having 8-15 oxyethyl gps., contg. an unsatd. monomer of formula (I) or (II); and (b) irradiating with fast electrons.</p> <div style="text-align: center;"> $\text{CH}_2=\overset{\text{R}}{\underset{\text{ }}{\text{C}}}-\text{COOR}_1 \quad (\text{I})$ </div> <div style="text-align: center;"> $\text{CH}_2=\text{C}(\text{R})-\overset{\text{O}}{\underset{\text{ }}{\text{C}}}-\text{N} \begin{matrix} \text{R}_1 \\ \text{R}_2 \end{matrix} \quad (\text{II})$ </div>	<p>R = H or CH₃; R₁ = CH₂CH₂OH or -CH₂CH₂CH₂OH; and R₂ = H, CH₃, -CH₂OH or -CH₂CH₂OH. ADVANTAGE Treatment stabilises the antistat and hydrophilic properties of the material against repeated laundering and also imparts soil-resistant properties. EXAMPLE A fabric made from polycaprolactam fibre is treated for 2 mins. at 25°C in an aq. soln. contg. 15 wt.% polyethylene-glycol-di-methacrylate having 13 oxyethyl gps. and 3 wt.% 2-hydroxymethyl-acrylamide. The fabric is then rolled out to 70% moisture, irradiated with a 2Mrad dose of fast electrons, washed and dried. The fabric retains high antistat and hydrophobic properties after 50 laundering cycles (R). (11pp1550WADwgNo0/9). Full Patentees: Inst Tech Volokon An Gdr; Wool Ind Res Inst. DD-210561-A</p>

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